

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method comprising:

~~in a database, maintaining a collection of documents containing content, each of the documents including a hyperlink to another document and represented by a unique logical information object (LOIO), each unique LOIO pointing to one or more physical information objects (PHIOs) belonging to each unique LOIO, each of the PHIOs containing a variant of the content of [[a]] the document represented by the PHIO's respective LOIO, the variant being one of more attributes; and;~~

receiving a request for a first document in the collection and an entry context, the entry context specifying a respective value for each of one or more attributes;

determining a suitable PHIO when belonging to a first LOIO is response to a request, the first document being represented by the first LOIO, the suitable PHIO having attribute values matching the context entry if such a PHIO belongs to the first LOIO, and if no such PHIO belongs to the first LOIO, the suitable PHIO having attribute values matching a derived context, the derived context being generated by one or more successive applications to the entry context of one or more successively selected maps selected from a plurality of maps, each application of a map mapping a first attribute value to a second attribute value in the entry context or a derived context; and

providing the suitable PHIO in response to the request for the first document.

2. (Original) The method of claim 1 wherein the request is through a hyperlink.

3. (Currently Amended) The method of claim 1 wherein the attributes include one or more of a name of a component, a version of the component, a language of the document and/or a country version of the document.

4. (Currently Amended) The method of claim 1 wherein determining comprises:  
~~receiving an entry context representing a desired set of values for one or more attributes;~~  
generating a sequence of contexts from the entry context, each context in the sequence of contexts specifying a respective value for each of the one or more attributes;  
~~determining a match of the entry context to one of the contexts in the sequence; and~~  
~~returning a PHIO represented by the match.~~

5-8. (Cancelled)

9. (Currently Amended) The method of claim [[8]] 1 wherein the application of a map set is characterized by maps that change changes a single attribute value ~~and or the application of a maps map that change~~ changes a pair of attribute values, the maps map providing a dimension in which neighboring relations with respect to an attribute or a combination of attributes are defined.

10. (Currently Amended) A computer program product, tangibly embodied in a machine-readable storage device~~an information carrier, for maintaining a database~~, the computer program product being operable to cause data processing apparatus to:

~~maintain a collection of documents containing content, each of the documents including a hyperlink to another document and represented by a unique logical information object (LOIO), each unique LOIO pointing to one or more physical information objects (PHIOs) belonging to each unique LOIO, each of the PHIOs containing a variant of the content of [[a]] the document represented by the PHIO's respective LOIO, the variant being one of more attributes; and;~~

receive a request for a first document in the collection and an entry context, the entry context specifying a respective value for each of one or more attributes;

determine a suitable PHIO when belonging to a first LOIO is response to a request, the first document being represented by the first LOIO, the suitable PHIO having attribute values matching the context entry if such a PHIO belongs to the first LOIO, and if no such PHIO belongs to the first LOIO, the suitable PHIO having attribute values matching a derived context, the derived context being generated by one or more successive applications to the entry context

of one or more successively selected maps selected from a plurality of maps, each application of a map mapping a first attribute value to a second attribute value in the entry context or a derived context; and

provide the suitable PHIO in response to the request for the first document.

11. (Original) The computer product of claim 10 wherein the request is through a hyperlink.

12. (Currently Amended) The computer product of claim 10 wherein determining comprises:  
~~receiving an entry context representing a desired set of values for one or more attributes;~~  
generating a sequence of contexts from the entry context, each context in the sequence of contexts specifying a respective value for each of the one or more attributes;

determining a match of the entry context to one of the contexts in the sequence; and  
returning a PHIO represented by the match.

13. (Cancelled)

14. (Currently Amended) The computer product of claim ~~[[8]]~~ 10 wherein the application of a map set is characterized by maps that change ~~changes~~ a single attribute value ~~and or the application of a maps map that change~~ changes a pair of attribute values, the ~~maps map~~ providing a dimension in which neighboring relations with respect to an attribute or a combination of attributes are defined.

15. (Currently Amended) A system for maintaining a database, the system comprising:  
means for maintaining a collection of documents on a memory device containing content,  
each of the documents ~~including a hyperlink to another document and represented by a unique~~  
logical information object (LOIO), ~~each unique LOIO pointing to one or more physical~~  
information objects (PHIOs) belonging to each unique LOIO, each of the PHIOs containing a  
variant of the content of ~~[[a]] the document represented by the PHIO's respective LOIO, the~~  
~~variant being one of more attributes; and;~~

means for receiving a request for a first document in the collection and an entry context,  
the entry context specifying a respective value for each of one or more attributes;

means for determining a suitable PHIO ~~when belonging to a first LOIO in response to a request, the first document being represented by the first LOIO, the suitable PHIO having attribute values matching the context entry if such a PHIO belongs to the first LOIO, and if no such PHIO belongs to the first LOIO, the suitable PHIO having attribute values matching a derived context, the derived context being generated by one or more successive applications to the entry context of one or more successively selected maps selected from a plurality of maps, each application of a map mapping a first attribute value to a second attribute value in the entry context or a derived context; and~~

means for providing the suitable PHIO in response to the request for the first document.

16. (Original) The system of claim 15 wherein the request is through a hyperlink.

17. (Currently Amended) The system of claim 15 wherein the attributes include one or more of a name of a component, a version of the component, a language of the document and/or a country-version of the document.

18. (Currently Amended) The system of claim 15 wherein the means for determining comprises:

~~receiving an entry context representing a desired set of values for one or more attributes;~~  
means for generating a sequence of contexts from the entry context, each context in the sequence of contexts specifying a respective value for each of the one or more attributes;

means for determining a match of the entry context to one of the contexts in the sequence; and

means for returning a PHIO represented by the match.

19. (Cancelled)

20. (Currently Amended) The system of claim ~~[[8]]~~ 15 wherein the application of a map set is characterized by maps that change changes a single attribute value and/or the application of a maps map that change changes a pair of attribute values, the maps map providing a dimension in

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Page : 8 of 12

which neighboring relations with respect to an attribute or a combination of attributes are defined.